

KING-GUARD FLEX® 6040 Spray Polyurea

High Temperature, Higher Chemical Resistant - Heavy Duty Elastomer Coating

DESCRIPTION

KING-GUARD FLEX® 6040 is an ultra rapid curing spray applied polyurea elastomer coating and lining system, offering a high degree of mechanical and chemical protection for concrete and metal surfaces in aggressive environments. Typical application thickness is 2-4mm.

KING-GUARD FLEX® 6040 is a premium performance elastomer coating for the preservation and repair of surfaces which may have been damaged or degraded by chemical attack, time or mechanical wear. It has excellent hydrolytic stability and is resistant to low concentration acids, alkalis, hydrocarbons, seawater, moderate abrasion, sunlight and high temperatures.

KING-GUARD FLEX® 6040 is a 100% solids, two-component, 1:1 ratio material with elongation properties exceeding 200% and tensile strengths exceeding 15 MPa.

KING-GUARD FLEX® 6040 is applied using a plural component heated pump system with an effective pot life of 2-3 seconds. This product can be applied in temperatures ranging from -10°C to 50 °C and can be utilized within 30 minutes (light duty / water immersion).

APPLICATIONS

*Thickeners, Flotation Cells & Slurry Tanks
Hazardous waste landfill containment linings
Pipes, Sewer Manholes and Water Treatment Plants
Car Park Decks & Roof Waterproof Membranes*

*Potable Water Storage Reservoirs & Tank Linings
Chemical Bunds, Fuel and Earthen Pond Linings
Impact Resistant Protective Coatings – Pile Coatings
Haul Trailers & Water Tankers*

PHYSICAL PROPERTIES

Gel Time	2 - 4 seconds
Tack Free Time	5 - 10 seconds
Light duty foot traffic	<1 hour
80% Cure @ 21°C	8 Hours
Tensile Strength, [N/mm ²] ASTM D-638	≥ 15
Tensile Elongation, %	≥ 200
Shore Hardness, D	45 ± 5
Density [g/cm ³]	1.12 ± 0.02
Thermal Resistance (dry)	minus 40 - 130°C
Abrasion Resistance [mm ³], DIN 53516	≥ 200
Peel Strength (steel) [N/mm] DIN 53531	≥ 10
Water Vapour Permeation, ASTM E96, [ng/cm ² *h *Torr]	0.03 - 0.05*
Water Vapour Permeability, ASTM E 96, 4mm	5 - 7g/m ² /day
Potable Water Approval	AS/NZS 4020:2005

* The values are determined for material thickness of 4mm at a temperature of 38°C



CHEMICAL RESISTANCE - DIN 53521 (90 Days Immersion Exposure)

Hydrochloric Acid 10%	Resistant	Sulphuric Acid 20%	Resistant
Sodium Hydroxide 50%	80°C - Resistant 72 hours	Nitric Acid 1%	Resistant
Diesel Fuel	Resistant	Heavy Duty Detergent	Resistant
Sodium Chloride (all conc.)	60°C - Resistant	Roxby (mixture medium	
Liquid Nitrogen Fertilizer	Resistant	+ kerosene) All + 100g/L	Resistant

(Consult Asset Systems for chemical/temperature/service exposure approval)

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